

Appl. No. 10/788830

In the Claims:

Listing of all claims:

1-37. (Cancelled.)

1 38. (Currently Amended) A system for welding  
2 comprising:

3 a welding power source having a welding power  
4 output;

5 a wire feeder connected to the welding output and  
6 having a speed control input; and

7 a controller having a speed control output  
8 connected to the speed control input having a weld wire  
9 speed set point, and a run-in wire speed set point, wherein  
10 the run-in speed set point is a set percentage of the weld  
11 wire speed set point, whereby a change in the weld wire  
12 speed set point effects a like-change in the run-in wire  
13 speed set point to maintain the set percentage.

1 39. (Original) The system of claim 38, wherein the  
2 set percentage is a user selectable percentage.

1 40. (Original) The system of claim 39, wherein the  
2 percentage is between 25 percent and 150 percent.

1 41. (Original) The system of claim 39, wherein the  
2 system includes a weld wire feed user input, and wherein the  
3 controller includes a run-in set circuit including a percent  
4 input connected to the user input and an enable input.

1 42. (Original) The system of claim 41, wherein the  
2 enable input receives a trigger state signal and a power-up  
3 signal.

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1 43. (Original) The system of claim 42 wherein the  
2 user input is a potentiometer.

1 44. (Original) The system of claim 43, wherein the  
2 enable input is connected to a user selectable toggle switch.

3 45. (Original) The system of claim 38 wherein the  
4 controller is a microprocessor controller.

1 46. (Original) The system of claim 38 wherein the  
2 controller is an analog controller.

1 47. (Currently Amended) A system for welding  
2 comprising:  
3 power means for supplying welding power to an arc;  
4 feeder means for feeding wire to the arc; and  
5 control means for controlling a speed of the  
6 feeder means to a weld speed and a run-in speed, wherein the  
7 run-in speed set point is a set percentage of the weld speed  
8 set point whereby a change in the weld wire speed set point  
9 effects a like-change in the run-in wire speed set point to  
10 maintain the set percentage, connected to the feeder means.

1 48. (Original) The system of claim 47, further  
2 comprising means for allowing the user to select the set  
3 percentage, connected to the control means.

1 49. (Original) A method of welding  
2 comprising:  
3 providing welding power to an arc;  
4 feeding wire to the arc;

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5                   controlling the speed of the wire during a run-in  
6       state; and  
7                   controlling the speed of the wire during a weld  
8       state, wherein the run-in speed set is a set percentage of  
9       the weld speed, whereby a change in the weld wire speed set  
10      point effects a like-change in the run-in wire speed set  
11      point to maintain the set percentage.

1           50. (Original)       The method of claim 49, including  
2       using a user selectable percentage as the set percentage.

1           51. (Original)       The method of claim 50, including  
2       using the set percentage from the range of between 25 percent and  
3       150 percent.

1           52. (Original)       The method of claim 51, including  
2       determining the user selected percentage speed in response to an  
3       enable signal and a weld wire feed user input.

53-70. (Withdrawn)